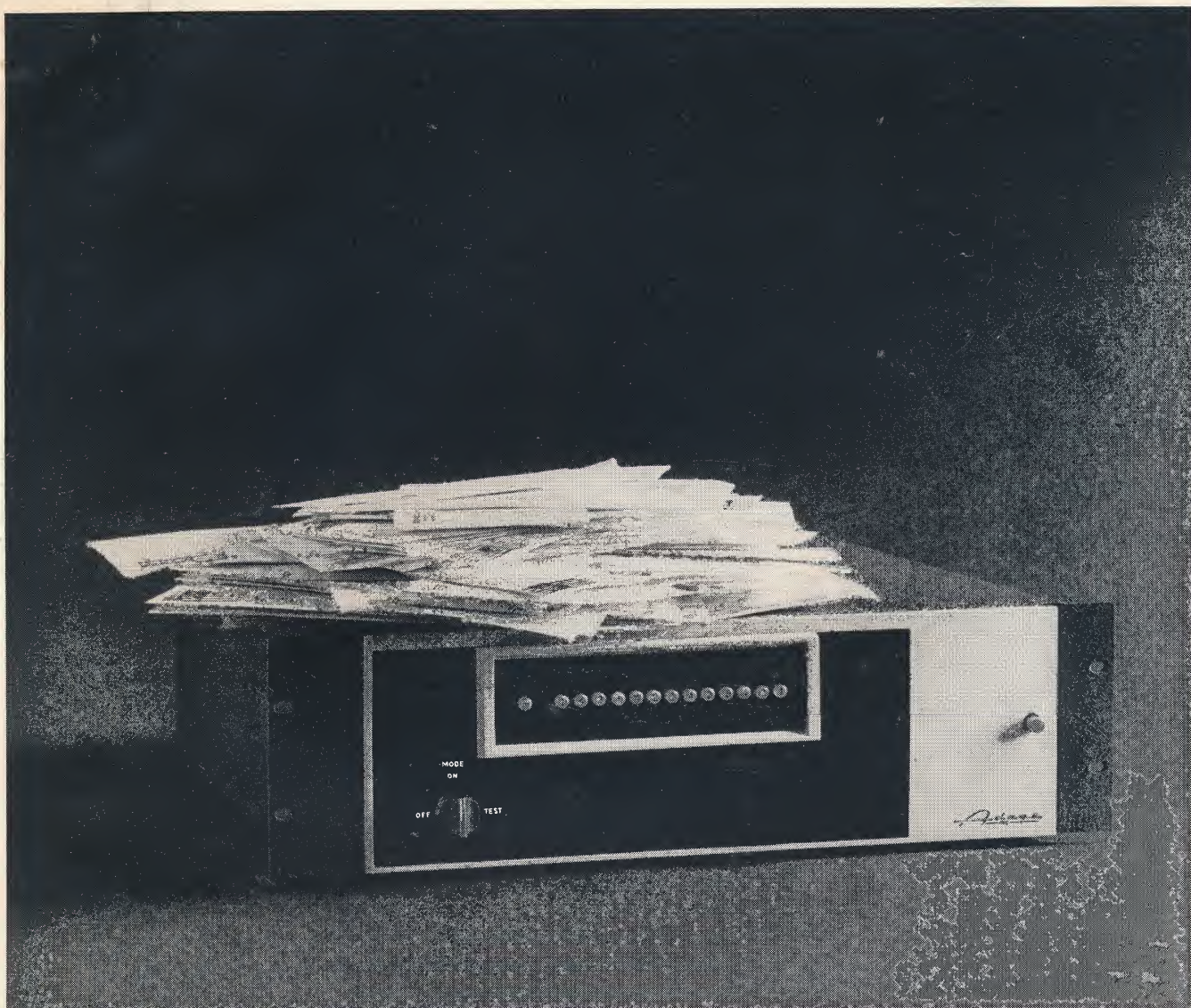




A complete 14-bit A-to-D conversion in under 4 μ sec... that's something to write about!

We're delighted with the overwhelming number of inquiries we've received about our two new additions to the Adage VOLDICON™ line of voltage digitizers.

The high-speed, high-resolution VT13-AB and ultra high-speed VT7-AB are based on a novel design combining techniques of successive approximation and parallel threshold decoding. The VT13-AB ac-

complishes a 14-bit analog-to-digital conversion in less than 4 microseconds. The 8-bit VT7-AB performs a complete conversion in under 800 nanoseconds.

A full line of data systems components, including other A-to-D converters, D-to-A converters, multiplexers, operational amplifiers, and digital logic, is available from Adage, Inc. These components use

all-solid-state circuitry and are designed and tested to meet the most demanding requirements for accuracy and reliability.

Why not add your inquiry to the many we've already received? We would be pleased to send you a technical brochure on the VT13-AB and VT7-AB. Call or write I. R. Schwartz, Vice President 783-1100, area code 617.

Adage, Inc. welcomes employment inquiries from professional engineers.

Adage
INC.

1079 Commonwealth Avenue ☐ Boston, Massachusetts 02215

FULLER & SMITH & ROSS INC.
ELECTRONIC DESIGN, JUNE 21, 1965
ELECTRONICS, MAY 31, 1965
INSTRUMENTS & CONTROL SYSTEMS, MAY, 1965

AB-2079

New Developments at

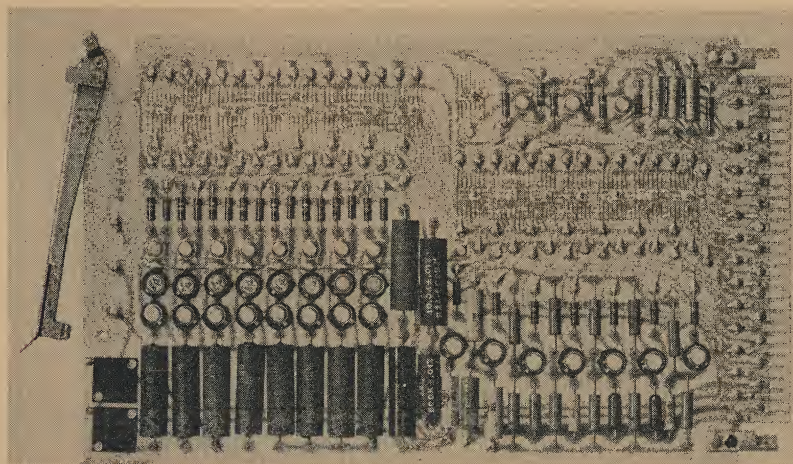
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FOR IMMEDIATE RELEASE

ADAGE ANNOUNCES NEW HYBRID MULTIPLIER

-- Important Advantages for Hybrid Simulation,
Data Acquisition, and Display Generation

Adage, Inc. announces a new "Y"-series of Hybrid Multiplying Elements that greatly simplify data handling in systems using both analog and digital signals. These HME's accept an analog and a digital input, multiply the analog value by the digital, and output the product in analog form.



The HME replaces mechanical potentiometers, substituting digitally-controlled electronic potentiometers. It thus eliminates all moving parts and speeds up problem

solving by slashing pot-setting times -- the HME settles to 0.01% of final value in less than 50 microseconds for a step change of 200 volts. The HME's 15-bit resolution also exceeds that of any motor-driven potentiometer.

Adage HME's also eliminate much signal conversion and reconversion. Previously, all arithmetic operations were performed in either the analog or digital domain. Now, however, when an analog signal is to be multiplied by a value that has been calculated digitally, the two signals can be fed to a hybrid multiplying element, which then directs its analog product back to the analog computer.

Hybrid multiplying elements at the front end of a data acquisition system allow scaling and a quick look before A-to-D conversion of data. They also ease the task of function generation and display of data.

These elements in the Y Series are available with 12- or 15-bit resolution, buffered or double-buffered, and with outputs to ± 100 volts. Wide-band noise is less than 2 millivolts rms over a 100khz bandwidth. Use of integrated circuits allows greater packing densities and lower prices. For example, eight multiplying elements can be housed in a single 5-1/4-inch-high case which mounts in a standard 19-inch rack. Prices start at \$930.

For additional information, write or phone Mr. Leon Dall, Product Manager, Adage, Inc., 1079 Commonwealth Avenue, Boston, Mass. (617-783-1100).